PROJECT NUMBER: 5001
PROJECT TITLE: Packaging Studies
PROJECT LEADER: H. R. Dunaway
PERIOD COVERED: November, 1988

PACKAGING STUDIES

A. **Objective**: Provide technical packaging support to Manufacturing, Manufacturing Services, Engineering, Purchasing, and Quality Assurance. In addition, assist New Products Directorate in evaluating new packaging concepts and products.

B. **Status/Plans**:

Residual Printing Solvents in Packaging Materials: Evaluation of the following items was coordinated in the past month.

- B&H FF Men KS FT 20 for Ad-Pack (Alford)
- Marlboro Cork Tipping w/Toluol Free Ink (Ecusta)
- Project C-2 FT 20 (Alford)
- Merit "Heavy Up" KS&100 Pet-G 20/100 (Klearfold)
- Indonesian Marl LS FT 20 made with both Tako and Ivory boards
- Merit "Heavy-Up" promotional postcard
- Offset Carton Insert with 100% ink and varnish coverage
- DJW-2042 Water Base/urethane Lacquer
  Chemical 10 Antifoam
- RJC6011 Toluol Free Solvent Lacquer
  BYK-052 Defoamer
- JCCK Fluo & 16-2300 Videojet Invisible UV inks
  (To print vendor material tracking information inside cartons.)

Poly Laminated Blanks and Cartons: Samples were packaged at the Semi-Works using six combinations of test and control materials. The 12 week OV study will begin early December to evaluate moisture retention.

Subjective Evaluation of Packaging Materials: Samples were prepared, aged, and submitted for the subjective smoking evaluation of the following packaging materials:

- Teich 15# Silver Foil (New Supplier)
- Alcan 15# Silver Foil with new Tissue Paper Source
- National 34-2928 Hotmelt for use on Promo Pet-G 1/2 Cartons.
- KTI Silver Line Tear Tape with Pressure Sensitive Adhesive
- Klearfold Pet-G 5-Pack Promotional Cartons

Project Fox: Cigarettes packed in the latest plastic FT 20 made with Philips 55-500 HD Polyethylene and CPLPE green pigment, were rejected by the Flavor Development smoking panel. Cigarettes packed in the box samples after conditioning at 135° F for 8 and 24 hours, to drive off volatiles, were found comparable to controls with the 24 hour version preferred.

Fiber-Lam, Inc. Shipping Cases: A 12 week storage study is underway to evaluate moisture protection provided by cases with a polyethylene

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coating within the laminated liner board. After six weeks storage under Desert conditions, product packed in the test case has lost .3% OV while that packed in the conventional case has lost 2.7% OV.

Miscellaneous: A double-sided tape from a new source is under evaluation, for NY Marketing Services, to replace the material currently used on POS promotions.

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